

CRF Error Corrected by the STIC Systems Branch

Serial Number: 10/020,513

CRF Processing Date: 12/26/02 #4 018
Edited by: DC 2590
Verified by: (STIC staff) 12/18 Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically:

ENTERED

 Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002
TIME: 09:16:25

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\12262002\J020513.raw

3 <110> APPLICANT: Degussa AG
5 <120> TITLE OF INVENTION: Nucleotide sequences which code for the ilvE gene
7 <130> FILE REFERENCE: 000759 BT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/020,513
C--> 10 <141> CURRENT FILING DATE: 2002-11-27
12 <160> NUMBER OF SEQ ID NOS: 2
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1453
18 <212> TYPE: DNA
19 <213> ORGANISM: Corynebacterium glutamicum
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (221)..(1321)
24 <223> OTHER INFORMATION: ilvE gene
26 <400> SEQUENCE: 1
27 ccttgggtgg tgctgttgtg ctgtaggcat ttttcgcat tgaaagctga gtcctctcg 60
29 tgaagttgtg tctccgcttt ggttggggga ggcataaat tgaaactaac ttttaacaag 120
31 cctagccatt cctcaaaaacc gtgagacgaa attggctatt catcccataaa aatggggctg 180
33 actagtgtat ctgtcaggta gcaggtgtac cttaaaatcc atg acg tca tta gag 235
34 Met Thr Ser Leu Glu
35 1 5
37 ttc aca gta acc cgt acc gaa aat ccg acg tca ccc gat cgt ctg aag 283
38 Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser Pro Asp Arg Leu Lys
39 10 15 20
41 gaa att ctt gcc gca ccg aag ttc ggt aag ttc ttc acc gac cac atg 331
42 Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe Phe Thr Asp His Met
43 25 30 35
45 gtg acc att gac tgg aac gag tcg gaa ggc tgg cac aac gcc caa tta 379
46 Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp His Asn Ala Gln Leu
47 40 45 50
49 gtg cca tac gcg ccg att cct atg gat cct gcc acc acc gta ttc cac 427
50 Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala Thr Thr Val Phe His
51 55 60 65
53 tac gga cag gca att ttt gag gga att aag gcc tac cgc cat tcg gac 475
54 Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala Tyr Arg His Ser Asp
55 70 75 80 85
57 gaa acc atc aag act ttc cgt cct gat gaa aac gcc gag cgt atg cag 523
58 Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn Ala Glu Arg Met Gln
59 90 95 100
60 cgt tca gca gct cga atg gca atg cca cag ttg cca acc gag gac ttt 571
61 Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu Pro Thr Glu Asp Phe
62 105 110 115

RAW SEQUENCE LISTING
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DATE: 12/26/2002
TIME: 09:16:25

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\12262002\J020513.raw

64 att aaa gca ctt gaa ctg ctg gta gac gcg gat cag gat tgg gtt cct	619
65 Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp Gln Asp Trp Val Pro	
66 120 125 130	
68 gag tac ggc gga gaa gct tcc ctc tac ctg cgc cca ttc atg atc tcc	667
69 Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg Pro Phe Met Ile Ser	
70 135 140 145	
72 acc gaa att ggc ttg ggt gtc agc cca gct gat gcc tac aag ttc ctg	715
73 Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp Ala Tyr Lys Phe Leu	
74 150 155 160 165	
76 gtc atc gca tcc cca gtc ggc gct tac ttc acc ggt gga atc aag cct	763
77 Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr Gly Gly Ile Lys Pro	
78 170 175 180	
80 gtt tcc gtc tgg ctg agc gaa gat tac gtc cgc gct gca ccc ggc gga	811
81 Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg Ala Ala Pro Gly Gly	
82 185 190 195	
84 act ggt gac gcc aaa ttt gct ggc aac tac gcg gct tct ttg ctt gcc	859
85 Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala Ala Ser Leu Leu Ala	
86 200 205 210	
88 cag tcc cag gct gcg gaa aag ggc tgt gac cag gtc gta tgg ttg gat	907
89 Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln Val Val Trp Leu Asp	
90 215 220 225	
92 gcc atc gag cac aag tac atc gaa gaa atg ggt ggc atg aac ctt ggg	955
93 Ala Ile Glu His Lys Tyr Ile Glu Glu Met Gly Gly Met Asn Leu Gly	
94 230 235 240 245	
96 ttc atc tac cgc aac ggc gac caa gtc aag cta gtc acc cct gaa ctt	1003
97 Phe Ile Tyr Arg Asn Gly Asp Gln Val Lys Leu Val Thr Pro Glu Leu	
98 250 255 260	
100 tcc ggc tca cta ctt cca ggc atc acc cgc aag tca ctt cta caa gta	1051
101 Ser Gly Ser Leu Leu Pro Gly Ile Thr Arg Lys Ser Leu Leu Gln Val	
102 265 270 275	
104 gca cgc gac ttg gga tac gaa gta gaa gag cga aag atc acc acc acc	1099
105 Ala Arg Asp Leu Gly Tyr Glu Val Glu Glu Arg Lys Ile Thr Thr Thr	
106 280 285 290	
108 gag tgg gaa gaa gac gca aag tct ggc gcc atg acc gag gca ttt gct	1147
109 Glu Trp Glu Glu Asp Ala Lys Ser Gly Ala Met Thr Glu Ala Phe Ala	
110 295 300 305	
112 tgc ggt act gca gct gtt atc acc cct gtt ggc acc gtg aaa tca gct	1195
113 Cys Gly Thr Ala Ala Val Ile Thr Pro Val Gly Thr Val Lys Ser Ala	
114 310 315 320 325	
116 cac ggc acc ttc gaa gtg aac aac aat gaa gtc gga gaa atc acg atg	1243
117 His Gly Thr Phe Glu Val Asn Asn Asn Glu Val Gly Glu Ile Thr Met	
118 330 335 340	
120 aag ctt cgt gaa acc ctc acc gga att cag caa gga aac gtt gaa gac	1291
121 Lys Leu Arg Glu Thr Leu Thr Gly Ile Gln Gln Gly Asn Val Glu Asp	
122 345 350 355	
124 caa aac gga tgg ctt tac cca ctg gtt ggc taaatcaacc ggttttaaga	1341
125 Gln Asn Gly Trp Leu Tyr Pro Leu Val Gly	
126 360 365	
128 ccccgctgca ttaaacccctg atttattgca gcggggtttt tgcgttgaca agctcttatg	1401

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002
TIME: 09:16:25

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\12262002\J020513.raw

130 agacgttaggg ggtggaagca ggggttaggac gtgtccagcc caagtggcat gc 1453
 133 <210> SEQ ID NO: 2
 134 <211> LENGTH: 367
 135 <212> TYPE: PRT
 136 <213> ORGANISM: Corynebacterium glutamicum
 138 <400> SEQUENCE: 2
 139 Met Thr Ser Leu Glu Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser 1453
 140 1 5 10 15
 142 Pro Asp Arg Leu Lys Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe 1453
 143 20 25 30
 145 Phe Thr Asp His Met Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp 1453
 146 35 40 45
 148 His Asn Ala Gln Leu Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala 1453
 149 50 55 60
 151 Thr Thr Val Phe His Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala 1453
 152 65 70 75 80
 154 Tyr Arg His Ser Asp Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn 1453
 155 85 90 95
 157 Ala Glu Arg Met Gln Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu 1453
 158 100 105 110
 160 Pro Thr Glu Asp Phe Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp 1453
 161 115 120 125
 163 Gln Asp Trp Val Pro Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg 1453
 164 130 135 140
 166 Pro Phe Met Ile Ser Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp 1453
 167 145 150 155 160
 169 Ala Tyr Lys Phe Leu Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr 1453
 170 165 170 175
 172 Gly Gly Ile Lys Pro Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg 1453
 173 180 185 190
 175 Ala Ala Pro Gly Gly Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala 1453
 176 195 200 205
 178 Ala Ser Leu Leu Ala Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln 1453
 179 210 215 220
 181 Val Val Trp Leu Asp Ala Ile Glu His Lys Tyr Ile Glu Glu Met Gly 1453
 182 225 230 235 240
 184 Gly Met Asn Leu Gly Phe Ile Tyr Arg Asn Gly Asp Gln Val Lys Leu 1453
 185 245 250 255
 187 Val Thr Pro Glu Leu Ser Gly Ser Leu Leu Pro Gly Ile Thr Arg Lys 1453
 188 260 265 270
 190 Ser Leu Leu Gln Val Ala Arg Asp Leu Gly Tyr Glu Val Glu Glu Arg 1453
 191 275 280 285
 193 Lys Ile Thr Thr Glu Trp Glu Glu Asp Ala Lys Ser Gly Ala Met 1453
 194 290 295 300
 196 Thr Glu Ala Phe Ala Cys Gly Thr Ala Ala Val Ile Thr Pro Val Gly 1453
 197 305 310 315 320
 199 Thr Val Lys Ser Ala His Gly Thr Phe Glu Val Asn Asn Asn Glu Val 1453
 200 325 330 335
 202 Gly Glu Ile Thr Met Lys Leu Arg Glu Thr Leu Thr Gly Ile Gln Gln 1453

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002

TIME: 09:16:26

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\12262002\J020513.raw

203	340	345	350
205	Gly Asn Val	Glu Asp Gln Asn Gly Trp Leu Tyr Pro Leu Val Gly	
206	355	360	365

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002

TIME: 09:16:27

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\12262002\J020513.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date



OIPE

Open to Comply
Corrected to Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,513

DATE: 12/16/2002
TIME: 13:34:23

Input Set : A:\000759_englisch.app
Output Set: N:\CRF4\12162002\J020513.raw

3 <110> APPLICANT: Degussa AG
5 <120> TITLE OF INVENTION: Nucleotide sequences which code for the ilvE gene
7 <130> FILE REFERENCE: 000759 BT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/020,513
C--> 10 <141> CURRENT FILING DATE: 2002-11-27
12 <160> NUMBER OF SEQ ID NOS: 2
14 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

133 <210> SEQ ID NO: 2
134 <211> LENGTH: 367
135 <212> TYPE: PRT
136 <213> ORGANISM: Corynebacterium glutamicum
138 <400> SEQUENCE: 2
139 Met Thr Ser Leu Glu Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser
140. 1 5 10 15
142 Pro Asp Arg Leu Lys Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe
143 20 25 30
145 Phe Thr Asp His Met Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp
146 35 40 45
148 His Asn Ala Gln Leu Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala
149 50 55 60
151 Thr Thr Val Phe His Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala
152 65 70 75 80
154 Tyr Arg His Ser Asp Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn
155 85 90 95
157 Ala Glu Arg Met Gln Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu
158 100 105 110
160 Pro Thr Glu Asp Phe Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp
161 115 120 125
163 Gln Asp Trp Val Pro Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg
164 130 135 140
166 Pro Phe Met Ile Ser Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp
167 145 150 155 160
169 Ala Tyr Lys Phe Leu Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr
170 165 170 175
172 Gly Gly Ile Lys Pro Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg
173 180 185 190
175 Ala Ala Pro Gly Gly Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala
176 195 200 205
178 Ala Ser Leu Leu Ala Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/020,513

DATE: 12/16/2002
TIME: 13:34:23

Input Set : A:\000759_englisch.app
Output Set: N:\CRF4\12162002\J020513.raw

179 210 215 220
181 Val Val Trp Leu Asp Ala Ile Glu His Lys Tyr Ile Glu Glu Met Gly
182 225 230 235 240
184 Gly Met Asn Leu Gly Phe Ile Tyr Arg Asn Gly Asp Gln Val Lys Leu
185 245 250 255
187 Val Thr Pro Glu Leu Ser Gly Ser Leu Leu Pro Gly Ile Thr Arg Lys
188 260 265 270
190 Ser Leu Leu Gln Val Ala Arg Asp Leu Gly Tyr Glu Val Glu Glu Arg
191 275 280 285
193 Lys Ile Thr Thr Glu Trp Glu Glu Asp Ala Lys Ser Gly Ala Met
194 290 295 300
196 Thr Glu Ala Phe Ala Cys Gly Thr Ala Ala Val Ile Thr Pro Val Gly
197 305 310 315 320
199 Thr Val Lys Ser Ala His Gly Thr Phe Glu Val Asn Asn Asn Glu Val
200 325 330 335
202 Gly Glu Ile Thr Met Lys Leu Arg Glu Thr Leu Thr Gly Ile Gln Gln
203 340 345 350
205 Gly Asn Val Glu Asp Gln Asn Gly Trp Leu Tyr Pro Leu Val Gly
206 355 360 365

E--> 213 ~~Degussa Aktiengesellschaft Fehler! Textmarke nicht definiert.~~ *delete*
E--> 214 ~~60311 Frankfurt~~

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/020,513

DATE: 12/16/2002
TIME: 13:34:24

Input Set : A:\000759_englisch.app
Output Set: N:\CRF4\12162002\J020513.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:213 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:213 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:6
L:214 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:214 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:214 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:214 M:252 E: No. of Seq. differs, <211> LENGTH:Input:367 Found:374 SEQ:2